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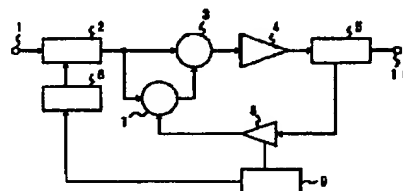
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**RADIO EQUIPMENT**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To reduce the circuit scale by providing a temperature sensor in a feedback circuit to sense a temperature and outputting an output correction value corresponding to a fluctuation in a transmission power due to a temperature change thereby obtaining a stable feedback gain against the temperature fluctuation.

**SOLUTION:** A modulation signal received from a modulation signal input terminal 1 is amplified by a power amplifier section 4 and outputted from a transmission output terminal 10. Part of a transmission output signal is given to a subtractor 7 from a directional coupler 5 as a feedback signal. The subtractor 7 compares the modulation signal and the feedback signal to provide an output of a signal corresponding to the level difference and it is fed to a distortion correction device 3, in which distortion in the power amplifier section 4 is corrected for a modulation signal; and a



transmission output is outputted. On the other hand, a feedback circuit temperature sensor 9 senses a temperature fluctuation in a feedback circuit 8, sensed temperature data are given to a database section 6, in which the data are converted into output level correction data stored in advance, which are used to control a level correction device 2. The device 2 corrects an amplitude level of the modulation input signal to conduct temperature compensation to keep the transmission power constant.

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